



**ELECTRICAL SPECIFICATION**

Diameter	3M			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625~4.2	5.85~6.425	10.95~12.75	14.0~14.5
Gain, Mid-band, dBi	40.12	43.7	49.88	50.81
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB for LP	≥35dB			
XPD across 1dB Beam Width, dB for LP	≥33dB			
Axial Ratio (dB) For Circular Pol.	1.30	1.09		
VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Antenna Noise Temperature, 2 port				

Antenna Noise Temperature, 2-port feed 10° Elevation 20° Elevation 40° Elevation	32°K 26°K 23°K		52°K 43°K 38°K	
-3dB Beam Width	1.62°	1.07°	0.53°	0.47°
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-159G/137G	WR-75	WR-75
Feed Insertion Loss, dB	0.2	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	CCIR580-4			

**MECHANICAL SPECIFICATION**

Antenna Type	Ring Focus Antenna			
Antenna Pedestal Type	Kingpost Pedestal			
Finishes	Reflector Surface Pedestal & Back Structure	Aluminum panels with high-diffusing white paint Hot dipped Galvanized		
Surface Accuracy (RMS)	≤ 0.35mm			
Azimuth	0°~360°			
Elevation	0°~90°			
Antenna Drive	Manual or Motorized drive			

**ENVIRONMENTAL SPECIFICATION**

Operational Wind	72km/h Gusting to 97km/h			
Survival Wind	216km/h			
Temperature	- 40°C ~ + 60°C			
Relative Humidity	100%			
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>			
Seismic (Survival)	0.3g (H), 0.15g (V)			

